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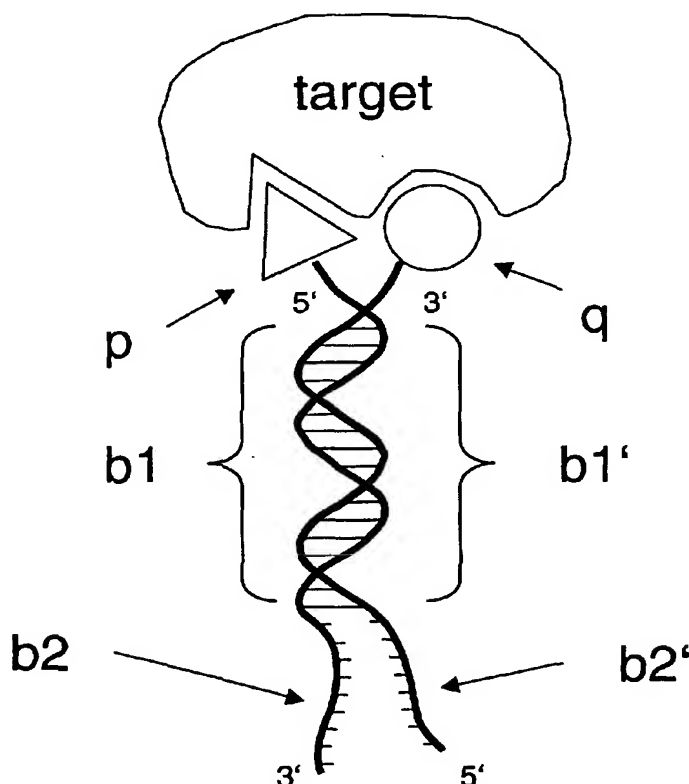
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(54) Title: ENCODED SELF-ASSEMBLING CHEMICAL LIBRARIES (ESACHEL)



(57) Abstract: The invention concerns a chemical compound comprising a chemical moiety (p) capable of performing a binding interaction with a target molecule (e.g. a biological target) and further comprising an oligonucleotide (b) or functional analogue thereof. In a first embodiment according to the invention, the chemical compound is characterized in that the oligonucleotide (b) or functional analogue comprises at least one self-assembly sequence (b1) capable of performing a combination reaction with at least one self-assembly sequence (b1') of a complementary oligonucleotide or functional analogue bound to another chemical compound comprising a chemical moiety (q). In a second embodiment according to the invention, the chemical compound which comprises a coding sequence (b1) coding for the identification of the chemical moiety (p) is characterized in that the chemical compound further comprises at least one self-assembly moiety (m) capable of performing a combination reaction with at least one self-assembly moiety (m') of a similar chemical compound comprising a chemical moiety (q). The invention comprises corresponding libraries of chemical compounds as well as methods of biopanning of target molecules and of identifying such targets.



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